PO No	Supplier	Item No	Rel . No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Serial No	Status	Receive	Price/Unit	Aging Days	Past To	Suppli Name
	vc	/			A Money	0.500*** (44W) receive sf				Us	12/7/2017	16	,	5017914	Stock	12/6/2017	\$ 13.91 /sf	0		2.62 Acier Ouellet
					W. entitle Tribit	Hot Rolled Steel Plate 0.375** (44W) receive sf						32		S017915	Stock	12/6/2017	\$ 11.37 / sf	0	\$36	Inc. 3.72 Acier Ouellett
		3				Hot Rolled Steel Plate 0.188*** (44W) receive sf						16	v	5017916	Stock	12/6/2017	\$ 5.53 / sf	0	\$8	Inc. 48 Acier Ouellette
		4			Part m drowts	1010-1025 Steel Bar .625 X 5.000 : MATERIAL: AISI 1010- 1025 OR ASTM A36/A368/A569/A570 OR OR CSA 640-21 38W/44W/50W/60W/70W SSA G40-21 OR 88W/44W/50W/60W/70W eceive ft				~				017917	Stock	12/6/2017	\$18.34/n	0	\$110	Inc. Acier Ouellette Inc.
		5		M	T-4140QT-R1.250	AT-4140 QT-R1.250				42	1	42	eso	17918 S	tock 1	2/6/2017 \$	6,51 / R	0	\$78.	7 Acier Ouellette
		_							Total:	66		82		+	-	-		-	\$681.3	inc.

Plex 12/6/2017 9:20 AM Dart Plouffe. Sonia



Order - Sales

Copy

CO00064889

Billed to 1270 , ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7 DART AEROSPACE LTD **Product Description** Shipped to **Delivery Route** Att : CHANTAL LAVOIE Tél.: 613-632-5200 935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242 , Ontario, Page **Credit Terme** Carrier Salesman Date Processed by Your order No Delivery date Customer No Net 30 Days OUELLETTE VALLEYFIELD 038513 Josianne Bourdon 2017/11/30 CLI0001056 2017/12/05

1 X 4' X 4' HEAT: 442C4	P44-316-V 4105	4 PLATE 44W 3/16 RANDOM	COUPE A LA SCIE	R4140-114H-V 4897	3 ROUND 4140 HEAT TREAT 1 1/4 RANDOM	COUPE A LA SCIE	TRANSIT ST-JEROME LE 04/12	1 X 6' HEAT (KYS) 7607	FCR-585-V 2957	1 FLAT CR 5/8 X 5 1018 RANDOM
	122.40			50.06					63.75	Weight
	16.00 PI2_\$CLB	1.00 UN		12.00 PL_\$CLB	1.00 UN				6.00 PI \$CIR	Qty U/M
	1.00			1.00		0.00		1.00	CMD EXP B/O	PCS NB
									IN I S C OIT	Internal lice on the

NIR: R-109516-6

1011-15	DELIVERY - CLIENT	CLIENT	000000000000000000000000000000000000000	000
- 10/15/11/5/11	TTE INC.			88A
2/12/12/00	935, Boul. du Hâvre	Customer N°	CLI0001056	1
	Salaberry de Valleyfield (Québec) 165 SL1 Tél.: 450-377-4248 Mt: 514-336-4248 Ext.: 800-667-4248	Date	2017/11/30	
	Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242	Delivery date	2017/12/05	
Billed to	Shinned to	Your order N°	038513	
DART AEROSPACE LTD	O podd	Processed by	Josianne Roundon	
1270, ABERDEEN ST. HAWKESRIRY Onesion year 1177	, Ontario,	Salesman		
		Carrier	OUELLETTE VALLEYETELD	
Instruction F-M	VOIE	Credit Terme	Net 30 Days	
	Delivery Route 5	Page	1	
rioduct Description	Weight Qty U/M	PCS NB	Internal lice Only	Γ
1 FLAT CR 5/8 X 5 1018 RANDOM FCR-585-V		CMD EXP B/O	IN I S C OUT	
		2		_
1 X 6' HEAT)		
IRANSIT ST-JEROME LE 04/12				
COUPE A LA SCIE				
SCIE 1	1.00 UN			
3 ROUND 4140 HEAT TREAT 1 1/4 DANISON		_		
	50.06 12.00 PI_\$CLB			-
		1		
1 X 12' HEAT		7		
			-	
			9	
			6	
			5	
				_

DELIVERY - CLIENT

NIR: R-109516-6

DELIVERY - CLIENT

Tél.: 450-377-4248 Mt: 514-336-4248 Ext.: 800-667-4248 935, Boul. du Hâvre Salaberry de Valleyfield (Québec) J6S 5L1 ACIER OUELLETTE INC.

Customer N° Date Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Delivery date

Your order N° 1 by

038513

2017/12/05

CLI0001056 2017/11/30 Josianne Bourdon

OUELLETTE VALLEYFIELD Net 30 Days

ioni oluni	rocessed	
	D.	

Shipped to

, Ontario,

HAWKESBURY, Ontario, K6A 1K7

DART AEROSPACE LTD 1270, ABERDEEN ST.

Billed to

Salesman Carrier

Credit Terme

Att: CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route

Page

PCS NB

B/0 EXP CMD S

1.00

Qty

Weight

Product Description

COUPE A LA SCIE

SCIE

Ψ

Instruction

TUO

Internal Use Only

S

IN

PIZ_\$CLB

16.00

122.40

4105

1 X 4' X 4' HEAT

SHEAR CUT

SHEAR

2

4 PLATE 44W 3/16 RANDOM

P44-316-V

文ナ

1.00

3

Total Weight (Lbs): 236.21

Conditions:

All sold and delivered materials remain the property of "Acier Ouellette Inc." until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to

Time Delivered Pm/M

Verified By

Prepared By

Customer's Signature

Date

Total (\$CAD)



Billed to

Shipped to

, Ontario,

DART AEROSPACE LTD

1270, ABERDEEN ST.

HAWKESBURY, Ontario, K6A 1K7

Att : CHANTAL LAVOIE Tél.: 613-632-5200

ACIER OUELLETTE INC.

935, Boul. du Hâvre

Salaberry de Valleyfield (Québec) J6S 5L1

Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation

SOU0072770

Customer Nº

CLI0001056

Date

2017/11/22

Revision Nº

0

Prices valid until

2017/11/29

Your Order No

Processed by

BERNARD

Salesman

JOSIANNE

Carrier

OUELLE SDV

Credit Terms

Net 30 Days

			Page	ms		Net 30 Da	ays		
Product N° and description	Weight	Qty		Qty	U/M	Price			
PLATE 44W 1/2 RANDOM P44-12-V 4062 1 X 4'X 4' P & O NOT AVAILABLE IN 1/2"	326.40		PI2_\$CLB		PI2	Price	1.00	Price 222.620	222.6
COUPE AU FEU FEU 3 STOCK		1.00	UN	1.00					
PLATE 44W 3/8 RANDOM P44-38-V 4116 1 X 4' X 8' P & O NOT AVAILABLE IN 3/8"	244.80	16.00	PI2_\$CLB	16.00	PI2		1.00	181.860	181.86
COUPE AU FEU FEU 3 STOCK		1.00	UN	1.00					
1 X 4 X 8 4 5 DAYS	0.00	1.00	UN	1.00	UN		1.00	240.000	240.00
SURCHARGE ENERGETIQUE FRAIS_ENERGETIQUE			\$			_			3.95
710:3851	3								
Total Weight (Lbs)	571.20								

Important

This offer is based on availability and current pricing conditions that may be revised upon préantiperofolhation de l'évolution des prix de l'acier sur le marché. Chiseoffere est hige transt conditional discheriberation du crédit. Approuved and Accepted by:

Sub-total

648.43

TVH-13 · · 84.30

Total (\$CAD)

732.73

Date :



Billed to

Shipped to

, Ontario,

DART AEROSPACE LTD

1270, ABERDEEN ST.

HAWKESBURY, Ontario, K6A 1K7

Att : CHANTAL LAVOIE Tél.: 613-632-5200

ACIER OUELLETTE INC.

935, Boul. du Hâvre

Salaberry de Valleyfield (Québec) J6S 5L1

Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation

SOU0074081

Customer Nº

CLI0001056

Date

2017/11/29

Revision Nº

0

Prices valid until

2017/12/06

Your Order No

Processed by

BERNARD

Salesman

JOSIANNE

Carrier

OUELLE SDV

Credit Terms

Net 30 Days

UN 1	1.00	UN PI	0.00	1.00 1.00	Price 110.060 165.000 78.070	110.0 165.0 78.07
UN IN	1.00	UN	0.00	1.00	165.000	165.0
UN 1	2.00	UN	0.00	1.00		78.0
_\$CLB 12	.00	PI	0.00	1.00		78.0
UN 1	.00		0.00		78.070	
		UN	0.00	1.00		0.00
UN 1.	.00	UN	0.00	1.00		0.00
					1	
1	_					
\$CLB 20.0	00	PI		1.00	12.370	12.37
SCLB 16.0	00 F	PI2	-	1.00	88.480	88.48
UN 1.0	0					
\$						3.95
	UN 1.0	UN 1.00	UN 1.00	UN 1.00	UN 1.00	UN 1.00 88.480

Important

This offer is based on availability and current pricing conditions that may be revised upon préaptiper pfohetion de l'évolution des prix de l'acier sur le marché. Chiseoffire esulaiget and conditional discledip protocole du crédit. Approuved and Accepted by :

Sub-total

457.93

TVH-13 · · 59.53

Date :

Total (\$CAD)

517.46

Chantal Lavoie

From:

Daniel Paquette

Sent:

Wednesday, November 29, 2017 8:59 AM

To:

Chantal Lavoie

Subject:

FW: A36 PICKLED IN OIL

Ref; RBW6505G00831-3G

Use DWG. MT-HRS-P. This is for "non" pickled in oil (normal steel) Scott will deviate the drawing until we can figure out what to do in the future. Thanks.

Ex; MT-HRS-P-0.500

Numbers are not in PLEX yet I will have them put in and let you know ASAP.

From: Daniel Paquette

Sent: Wednesday, November 22, 2017 11:42 AM To: Chantal Lavoie <clavoie@dartaero.com>

Subject: A36 PICKLED IN OIL Ref; RBW6505G00831-3G

Can you order this material please. Thanks.

0.500 thick 4' X 4' SHEET 0.375 thick 4' X 4' SHEET 0.187 thick 4' X 4' SHEET

One of each please.

DANIEL PAQUETTE

Production Engineering Coordinator

DART AEROSPACE T 1613632-5200 > 236 F 1 613 632-5246 1 800 556-4166 www.dartaerospace.com





Dart Aerospace Ltd. 1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada

PURCHASE ORDER PO038513

Tel (613) 632-5200

Supplier: ACI001-VC

Acier Ouellette Inc. 935 Boul. Du Havre

Valleyfield

QC

J6S 5L1 Canada Phone: 800 667 4248 Fax: 450 377 5696

PO No:

PO038513

PO Date: Due Date:

11/29/17

12/7/17

Purchase Order

Revision:

Revision Date:

Ship-To Contact:

Baker, DianePhone:

dbaker@dartaero.com

Ship To:

1270 Aberdeen Street

Hawkesbury

ON

K6A 1K7 Canada Phone: 613-632-5200

Via:

Ground

Pymt Terms:

Net 30

Freight Terms:

Special Comments: quotation no, sou0072770,sou0074081

Line			Items			Senel I			WEST TRANS
Item	T dit	Description	Status	Due Date	Order Quantity	Received Quantity		Unit Price (OAP)	Extende
'	MT-HRS-P-0.500	Hot Rolled Steel Plate 0.500" (44W receive sf	Firmed	12/7/17	1.			Price (CAD) \$13.91375/sf	
2	MT-HRS-P-0.375	Hot Rolled Steel Plate 0.375" (44W receive sf	Firmed	12/7/17	16 sf	165 0 sf	£	- It has so as a series by bosons a	\$181.86
3	MT-HRS-P-0.188 ~	Hot Rolled Steel Plate 0.188" (44W) receive sf	Firmed	12/7/17	16 sf	0 sf	F 33	\$5.53/sf	\$88.48
		1010-1025 Steel Bar .625 X 5.000 : MATERIAL: AISI 1010-1025 OR ASTM A36/A366/A569/A570 OR OF CSA G40-21 38W/44W/50W/60W/70W CSA G40- 21 OR-38W/44W/50W/60W/70W		12/7/17	6 11	165t		\$18.34333/ft	\$110.06
5 N	MT-4140QT-R1.250	MT-4140 QT-R1.250	Firmed	12/7/17	12 ft	12 FT	12 ft :	\$6.505833/ft	\$78.07
360	A CONTRACTOR		los Natas		and a	1011	Gı	rand Total:	\$681.09

Order Notes

Procurement Quality Clauses

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable)

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit

Plex 11/30/17 3:18 PM dart.lavoie.chantal



ACIER OUELLETTE INC.
935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) 36S 5L1

Order - Sales

Copy

CO00064891

4 1000	Tel.: 450-377-4248 Mt: 514-336-4248 Ext.: 800-667-4748	14-336-4248 Ext: 80	0-667-4349	customer No	S	CLI00	CL10001056	
	гах: 450-377-5696 МН: 514-336-4246 Ext.: 866-456-4242	14-336-4246 Ext.: 866	6-456-4242	Date		2017/	2017/11/30	
Billed to				Delivery date	ite	201	2017/12/04	
DART AEROSPACE LTD	Shipped to			Your order No	No.	038513	3	
1270 , ABERDEEN ST				Processed by	by	Josian	Josianne Bourdon	
HAWKESBURY, Ontario, K6A 1K7	, Ontario,			Salesman				
	Att : CHANTAL LAVOIE Tél.: 613-632-5200	Tél.: 613-632-5200		Carrier		OUELL	OUELLETTE VALLEYFIELD	
	Delivery Route	n		Credit Terme	ē	Net 30 Days	Days	
Product Description				Page				
DI ATT	Weight	Qty u	M/N	PCS NB	8		Internal III	
I PLATE 44W 1/2 RANDOM	276 00		CMD	m	B/0	Z	TIME O	
H94-12-V 4062	320.40	16.00 PI2_\$CLB	\$CLB 1.00			MA	T S C OUT	7
COUPE AU FEU								
PEU 3		1.00 UN	z					
	244.80	16.00 PIZ_\$CLB	CLB 1.00	-				
COUPE AU FEIT (7093C4-51)								
FEU 3		1.00 UN						
SURCHARGE ENERGETIQUE					-			
FRAIS_ENERGETIQUE		40	0.00					
Conditions .	Total Wolate Care							
-conditions: All soid and delivered materials remain the property of "Acer Quellette Inc." "Acer Queriers Inc."	rotal Weight (LBS) : 571.20	571.20	NIR : R-	109516-6	-			
following conditions: Ites 30 days from billing date and nonpred by the manufacturer and his warranty of transferred by "Acter Quellette Inc." to the client. The buyer's expense. The warranty offered by "Acter Quellette Inc." to the client. The buyer hereby accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any addition in this decument excepts to respect the seller, at his office (5) days with this document excepts do respect the seller, at his office (6) days with this document excepts do respect the seller, at his office (6) days with this document excepts do respect the seller, at his office to claim for the seller.	is made in full, complete and cashed. A rankly is transferred by "Acier Ouellette liton charges of 2% per month (24% by this charge to claim for the habane disc."	I lost materials are at the buy fnc." to the client. The buyer or annum) on all past due am	er's expense. The war hereby accepts to respons to yes	ranty offered by				
Prepared By: Verified By:		il goods returned must be wil	th our authorization an	id are subject to				

Prepared By :

Verified By :

Delivered By :

Time

Customer's Signature

3

0

Total (\$CAD)

461.53 0.00

Balance Deposit

461.53

MATERIAL: <u>MIOIRB 0.625x 0</u> DATE: <u>DEC 0 7 2017</u>	PO/BATCH NO.: 038513/501791-
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:	THICKNESS ORDERED: .625 THICKNESS RECEIVED: .625 SHEET SIZE ORDERED: N/A SHEET SIZE RECEIVED: N/A

DESCRIPTION	(CI	CR heck (N)	COMMENTS
SURFACE DAMAGE	Y	N	
CORRECT FINISH	X	N	
CORROSION	Y	N	
CORRECT GRAIN DIRECTION	0	N	
CORRECT MATERIAL PER M-DRAWING	Y	N	- Dart tooling use poly
CORRECT THICKNESS	0	N	Dara tooling use only
PHOTO REQUIRED	Y	N	8
CORRECT REF # TO LINK CERT	N	N	Heat # KYS 13683
CORRECT MATERIAL IDENTFICATION	(Y)	N	1724 4 AY) 13(00)
CORRECT M# ON THE MATERIAL	V	N	
DOES THIS MATERIAL REQUIRE			
ENGINEERING SIGN OFF	Y	R	
DOES THIS REQUIRE AN			
EXTRUSION REPORT	Y	N	

CUT SAMPLE PIECE OF	MATERIAL A	ND PREFOR	M A HARDNE	SS CHECK.	
TYPE OF MATERIAL SIZE OF TEST SAMPLE	HRC	HRB	DURA	DUR D	WEBSTER
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY:	SIGNED OFF BY:
DATE: DEC 0 7 2017	DATE:

MATERIAL: MIO18 A . 750 W . 125 DEC 0 7 2017	PO/BATCH NO.: 038507/501820
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:	THICKNESS ORDERED: .750 THICKNESS RECEIVED: .750 SHEET SIZE ORDERED:

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE CORRECT FINISH CORROSION CORRECT GRAIN DIRECTION CORRECT MATERIAL PER M-DRAWING CORRECT THICKNESS PHOTO REQUIRED CORRECT REF # TO LINK CERT CORRECT MATERIAL IDENTFICATION CORRECT M# ON THE MATERIAL DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF DOES THIS REQUIRE AN EXTRUSION REPORT	X X X X X X X X X X X X X X X X X X X	

CUT SAMPLE PIECE OF	MATERIAL A	ND PREFOR	M A HARDNE	SS CHECK.	
TYPE OF MATERIAL SIZE OF TEST SAMPLE	HRC	HRB	DUR A	DUR D	WEBSTER
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY:	SIGNED OFF BY:
DATE: DEC 07 2017	DATE:

MATERIAL: <u>MIOI8 BO-300 XOI-000</u> DATE: <u>DEC 0 7 2017</u>	PO/BATCH NO.: 038507/5018266
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:	THICKNESS ORDERED: 0.500 THICKNESS RECEIVED: 0.500 SHEET SIZE ORDERED: W/A SHEET SIZE RECEIVED: W/A

DESCRIPTION	(Cr	CR neck (N)	COMMENTS
SURFACE DAMAGE	Y	N	
CORRECT FINISH	(7)	N	
CORROSION	Υ	0	
CORRECT GRAIN DIRECTION	(7)	N	
CORRECT MATERIAL PER M-DRAWING	Y	N	- Dard tooling use only in
CORRECT THICKNESS	(1)	N	Desta 1551. Tuse only
PHOTO REQUIRED	Y.	(N)	7 251
CORRECT REF # TO LINK CERT	(1)	N	Heat # 588829
CORRECT MATERIAL IDENTFICATION	Ø	N	300001
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	(N)	

CUT SAMPLE PIECE OF	MATERIAL A			SS CHECK.	
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY:	SIGNED OFF BY:
DEC 0 7 2017	DATE:

MATERIAL: Mt-4/40+- R 1-250 DEC 8 7 2017	PO / BATCH NO.: 038513/5017918
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:	THICKNESS ORDERED: 1.250 THICKNESS RECEIVED: 1.250 SHEET SIZE ORDERED: 1/A SHEET SIZE RECEIVED: 1/A

DESCRIPTION	(Ch	CR leck (N)	COMMENTS
SURFACE DAMAGE	Y		
CORRECT FINISH	(Y)	N	
CORROSION	Y	(1)	
CORRECT GRAIN DIRECTION	(8)	N	
CORRECT MATERIAL PER M-DRAWING	8	N	ASTM 4140
CORRECT THICKNESS	M	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	Y	N	Heat # 45610914
CORRECT MATERIAL IDENTFICATION	(4)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	R	
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	(3)	

CUT SAMPLE PIECE OF				SS CHECK.	
	RECORD RES	SULTS BELOV	٧		
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if require
INSPECTED BY:	ral	SIGNED OFF BY:
DATE:	DEC 0.7.2017	17/12/ DATE:

O BY APPROVED AISI 4140 Q&T ROUND BAR VM DATE 17.09.12 MT-4140QT-R DESCRIPTION ECN 17-655 PURCHASE MATERIAL: AISI 4140 QUENCHED & TEMPERED STEEL ROUND BAR REV EG. 5/8" ROUND BAR = MT-4140QT-R0.625 MT-4140QT-R [D.DDD] WHERE "D.DDD" = DIÅMETER IN INCHES SPECIFICATION CONTROL DRAWING ASTM 4140 DT or ASTM 4142 QT SPECIFICATION: PART NUMBER: U

œ

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MATERIAL: <u>At-HRS-P-0-188</u> DATE: DEC 0.9 7817	PO / BATCH NO.: 038513/5017916
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:	THICKNESS ORDERED: 0.188 THICKNESS RECEIVED: 0.188 SHEET SIZE ORDERED: 4X4 SHEET SIZE RECEIVED: 4X4

DESCRIPTION	(Ch	CR neck (N)	COMMENTS
SURFACE DAMAGE	Y		
CORRECT FINISH	(Y)	N	
CORROSION	Y	N	
CORRECT GRAIN DIRECTION	(Q)	N	
CORRECT MATERIAL PER M-DRAWING	0	N	44 W
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(Y)	N	Heat# 442C4
CORRECT MATERIAL IDENTFICATION	0	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(R)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	(Z)	

CUT SAMPLE PIECE OF	MATERIAL A	ND PREFOR	M A HARDNE	SS CHECK.	
F	RECORD RES	SULTS BELOV	N		
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL			1		
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING			†		1

testers located in the Quality Office

QC 18 INSPECTION		_			ENGINEERING SIGNOFF (if required)
INSPECTED BY:	pel		/	5	SIGNED OFF BY:
DATE:		DEC 0 9 2017		11/11/4	DATE:

۵ APPROVED "HOT ROLLED STEEL PLATE SAC ВУ MT-HRS-P DATE 17-675 ECN# TOLERANCES PER MANUFACTURER SPECIFICATIONS ASTM A36 OR ASTM A1011 OR 44W OR ASTM A1018 WHERE T.TTT IS PLATE THICKNESS IN INCHES REMOVED LENGTH AND WIDTH DIMENSIONS HOT ROLLED STEEL PLATE SPECIFICATION CONTROL DRAWING MT-HRS-P-[T.TTT] MT-HRS-P-0.750 REV PURCHASE MATERIAL: SPECIFICATION: PART NUMBER: **EXAMPLE**:

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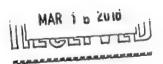


Mill Certification 3/15/2016

MTR #: X1-100367 555 Collins Blvd ORRVILLE, OH 44667 (330) 682-2355

		1 Country of Rolling: USA								
elting Mill: K	KENTUCK	Y		Country	of Melting: U	SA		Gr	ain Practice: C	OARSE
0.16%	0.65%	0.010%	0.023%	0.22%	0.23%	0.11%	0.08%	0.030%	0.0020%	0.002%
C	Mn	P	S	Si	Cu	Cr	Ni	Мо	V	Сь
art Detail: Frocess: Cold	L 0.6250"	al described herein h x 5.0000" 1018	as been manulaci 12-R Cold Dr	aired in accordant	ce with the specifi	cabons and stand	fards listed above	and that it satisfi	es those requireme	ms.
Customer S							Cı	istomer Part i	¥ V732211	
		0.000 10.0						Load Number X1-100367		57
Descrip		Grade 1018	101000					B.L. Numbe		
Pro	duct FL	0.6250° x 5.000	00° 1018 CD							
	Size Fla	at 0.6250x5.000	0 (0080)					Heat		
Gr	rade 10	18 ASTM A108						Lot #	X110003	5
Product G	roup Co	old Finish Bar	ish Bar Part Number 340201							
_								Sales Orde	r 102711.1	

Material certifies to ASTM A108 - 13 (unless otherwise noted) for Standard Cold Finished Bars
 No welding or weld repair was performed on this material.
 Mercury, radium, or alpha source materials in any form have not been used in the production of this material.



Chris Kelly

DIVISION METALLURGIST

Specification Comments:



GRUPO

171,711.

SIMEC INTERNATIONAL, S.A. DE C.V. Aseguramiento de la Calidad CERTIFICADO DE CALIDAD Nº ACEROS ESPECIALES CERTIFICATE OF QUALITY Nº 14-4561B The products supplied are in compliance with the requirements of the order.

CLIERTE

GRADIO DE ACERO CUSTOMER ORDER: 210049 CUSTOMER Magellan Corporation STEEL GRADE N' DE COL ATTA 4140H / 4142 112111111 HEAT Nº 45810914 IDENTIFICACION SECTION SIZE 1.1/4" PEROTE COLOR CODE Blue and White SHAPE ANALISIS QUIMICO % Round CHEMICAL ANALYSIS % (In accordance to ASTM A751-11) (DI: Caterplifar 1E0038) C Mn SI P S Cr Ni Mo Al Cu Sn PeS V D.I H2(ppm) .40 .92 .29 .020 .020 .91 .10 .190 .027 .25 .019 .040 .000 \$.51 Sppm METALOGRAFIA METALLOGRAPHY In accordance to ASTM E112-12)
TAMANO DE GRANO (In eccordance to ASTM E45-13)
INCLUSIONES NO METALICAS DEMARKURINALMION ESTRUCTURA STRUCTURE GRAIN SIZE DECARBURIZATION NONMETALLIC-INCLUSIONS 6-8 B 0.007 " 2 0 Pertite-Ferrite 2.0T 0.57 1.07 1.07 PROPIEDADES MECANICAS 0.0H 0.0H 0.0H 0.0H MECHANICALS PROPERTIES (in accordance to ASTM ASTO-14) RESIDTERCATALA TERSIONI Reduction ratio= 32.33 LIMITE DE CEDENCIA REPUCCION DE AREI % ALANGAMIENTO TENSILE STRENGTH (KSI) YIELD STRENGTH (KSI) REDUCTION IN AREA ELONGATION IN 2" BY OUREZA HARDNESS 150 Y.P. 0.2%: 138 19.15 HARDNESS (IN accordance to AS IM A370-14)
MID RADIUS: N/A HBW SURFACE: 306.6 HBW REMARKS: This is steel was heat treatment (QT)in continuous line heat treat Austenitzed a 1572 °F By: 38 min Quenched in: Tempered at 1178 °F By 43.467 min Cooled in air. Austentized a 1572 °F By: 38 min Ouenched in: Water spray at 84 °F Conform to ASIMA183-10 Grade 87, ASTM A334-06 Class 8C, ASME SA193-00 Grade 87, AISI 4140 LAISI 4142, ASTM A388-11 OBSERVACIONES: 1) Steel is free from mercury Ti Steel is free from mercury
4) Material according with ASTM A29-12, A265-10, A304-11 v A322-07 5) Vacuum Desgased
6) Calcium aluminium treated
7) Steel is Free From Radioactive Contamination
10) ASTM E381-01: Macro eatch ratings: S=1, R=1, C=1
11) Comply with EN 10204: 2004 Inspection certificate 3.1 3) Fine Grain Practice Jen Rutz Hotel FECHA 14-Ene-2015 11:00 DATE

F8.2.4-01/10"

ASEGURAMENTO DE CALIDAD QUALITY ASSURANCE DE PARTAME

ESSAH 1001 - 84015 - HALL 1011-18376

STEEL

ESSAR STEEL ALGOMA INC., 105 West Street, Sault Ste. Marle, Ontario, Canada P6A 7B4

Customer Specification ; BOUL LE CORBUSIER #201-4054 LAVAL, Quebec, Canada LES ACIER TRANSBEC (1997) LTEE Sold to Customer Name and Address . SO No., item & Date.: 8047540 000040 2016/12/1/ HR STEEL SHEET HSLA SQ / SS) to the Chemistry of Multi Cert CSA G40.21 50W (2013) / CSA G40.21 44W (2013) Top Sem Chilical Surface Improved Shape Gauge type NOW -VARENNES, Quebec, Canada RUE JEAN COUTH 350 LES ACIER TRANSBEC (1997) LTEE Ship to Customer Name and Address: Shipment No.4 Date:: 1200007761 2016/12/17 TC No., Cate & Time : Carrier: Cust.Part No.: BOL NO. Customer PO NO /Rem: CP RAIL (CAD FUNDS) - NCYX 381285 G-46211/4 LSA-365217 2016/12/18 - 01:40:59 1200007761

Supplementary instructions: Test Cert 1:mt/@colicx.ca Test Cert 2: nathalie.legauti@accertransbec.com

Insp T/R: I cst Report For Info Only

ESSAN STED, ALGOMATING, HERENY CERTIFIES THAT THE MATERIAL HEREIN DESCRIBED WAS INCE AND TESTED IN ACCORDANCE WITH THE RULES OF THE SPECIFICATION SHOWN, ALL RESULTS ARE RETAINED IN ACCORDANCE WITH THE PROPERTY AND REPORT OF THE SPECIFICATION SHOWN, ALL RESULTS ARE RETAINED IN ACCORDANCE WITH THE PROPERTY AND THE REPORT HAVING BEING THE OFFICENCE OF THE SPECIFICATION SHOWN AND ARE NOT THE INTENDED RECEIVER HEAVE CALL (TOUGH HAVE BEEN GENERATED BY A COMPATIBILIED SYSTEM AND IS VALID WITHOUT A PHYSICAL SIGNATURE.

ALL HEATS PULLY KILLED
HEATS INDICATED WITH (1) FINE ORAINED
HEATS INDICATED WITH (2) Made in Carnella for NA SO QUALITY AND ENVIRONMENTAL GERTIFICATES AVAILABLE AT WAYNESSARSTED ALGOMACON.

Dimensione (T x W x L) 0.1800 "x 48.001" 0.1800 "x 46.001" Heat No. (w#%) 4422C4" 0.18	
HBKB149 4421C4-68 HBKB149 4422C4-62 Man P 8 SH 0.87 0.016 0.004 0.030	sendend Suprem VLYM Pas equence of the version of the second
Guanthy No. of 1 43,419 LB 1 1 1 43364 LB 1 1 Cu Cr NI Cu	PRICENT
Dimensions (T x W x L) 0.1800 "x 48.001" 0.1800 "x 48.001" 1.1800 "	
Banch Mo. Heat No-MS HBK8148 4421C4-06 HBK8152 4422C4-02	
Ouentity No of Pcs 43,508 LB 1 1	



MANAGER METALLURGICAL SERVICES KASHIF REHMAN

"WARNING" THE TREE RESALTS AND VALUES REPORTED HERMANDICATE ONLY THAT (I) THE PARTICILAR STEEL FOR MACH THIS CRITICATE IS SINKED METS THE IMBROW SPECIMED YIELD STREWELL AND CHI THE SALVES AND PARTICILAR OF THE PERSON OF CREATED THE WARNESS OF THE SPECIMENT OF T

Date:2016/12/20 Time:07:14:37 Page no:1 of 2



ESSAR STEEL ALGOMA INC.,105 West Street, Sault Ste. Marie,Ontario, Canada P6A 7B4

Insp TIR: Tost Report For Info Only LSSAM STEEL ALGOMA INC. HEREBY CERTIFICE THAT THE WATERAL I EREIN DESCRIBED WAS MADE AND TESTED IN ACCORD. THIS VILL TEST REPORT MAY HOT BE REPRODUCED EXCEPT IN FULL WITHOUT WAITER AND ENTESTED IN ACCORD. VIETIS EN 1025-4.1 SO DUMLITY AND EMBROWEEHTAL CERTIFICATES AVAILABLE AT WAYMESSARSTEELALGOMA COMPUTBRIZED SY Tensile Tests WEIGH THO. BRICE LAB GAUGE COND METH DIR LOC VIELD(KSI) TENSIL A422CA DSPC ALG 0.1800 AR 2 T F 59.0 72.0	Sold to Customer Name and Address: LES ACIER TRANSBEC (1997) LTEE BOUL LE CORBUSIER #201-4054 LAVAL Quebec, Canada H7L 5R2 Customer Specification: HR STEEL SHEET HSLA SO / SS To the Chemistry of Multi Cert CSA G40.2
INSPERIENCE ALCOMA INC. LERGEN CONTERNATIVE MATERIAL IEREN DESCRIBED WAS DIESTED WACCORDANCE WITH THE RILLES OF THE SPECIFICATION OF DESCRIBED WAS STRUCTURED OF DESCRIBED WAS DADIESTED WACCORDANCE WITH THE RILLES OF THE SPECIFICATION OF DESCRIBED WAS DES	8047540 0000040 2016/12/17 Shipmant No.A Deta.: 120000776; 2016/12/17 Ship to Guttomer Hame and Address: LES ACIER TRANSBEC (1997) LTEE LES ACIER TRANSBEC (1997) LTEE RUE JEAN COUTU 350 VARENNES, Quoboc, Canada LES ACIER TRANSBEC (1997) LTEE BOL NO.: 120000776; Customar PO NO./Nam: G-4621174 120000776; 120000776; Customar No.: Customar PO NO./Nam: G-4621174 120000776; Customar No.: Control of Contr

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KASHIF REHMAN

MANAGER METALLURGICAL SERVICES

WARNING* THE TEST ASSAUTS AND VALUES REPORTED HONSIN BOLCATE COAY THAT IJ THE PARTICULAS STEEL FOR VACAN THIS CERTIFICATE IS ISSUED ARETS THE INSCRIPTION VEICA STEEL FOR VACAN THIS CERTIFICATE IS ISSUED ARETS THE INSCRIPTION VEICA STEEL FOR VALUE ASSAURCE AND THE RECURSION VEICA STEEL FOR VALUE ASSAURCE ON VALUE REPORTED HOUSE ASSAURCE VEICA STEEL VEICA STEEL TO BE ASSAURT ON VALUE REPORTED HOUSE VEICA STEEL VALUE ASSAURCE AND VALUE REPORT OF THE STEEL FOR VALUE ASSAURT ON THE ACTUAL STRENGTH OF SICH STEEL FOR FOR VALUE ASSAURT ON THE ACTUAL STRENGTH OF SICH STEEL.

Date:2016/12/20 Time:07:14:37 Page no:2 of 2

MATERIAL: <u>MY-HRS-P-0.300</u> DATE: <u>DEC 8 9 2917</u>	PO/BATCH NO.: 0385/3/50179/9
QUANTITY REJECTED: QUANTITY REJECTED: QUANTITY REJECTED:	THICKNESS ORDERED: 0.500 THICKNESS RECEIVED: 0.500 SHEET SIZE ORDERED: 4X4 SHEET SIZE RECEIVED: 4X4

DESCRIPTION	(CI	CR neck (N)	COMMENTS
SURFACE DAMAGE	Y	IN	
CORRECT FINISH	8	M	
CORROSION	Y	N	
CORRECT GRAIN DIRECTION	M	N	
CORRECT MATERIAL PER M-DRAWING	0	N	44W
CORRECT THICKNESS	Ø	N	
PHOTO REQUIRED	Υ	W	
CORRECT REF # TO LINK CERT	(8)	N	Host # 442264 711852
CORRECT MATERIAL IDENTFICATION	(4)	N	THE THE WAY
CORRECT M# ON THE MATERIAL	K	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	R	
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	(A)	

CUT SAMPLE PIECE OF	MATERIAL A			SS CHECK.	
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION			ENGINEERING SIGNOFF (if required)
INSPECTED BY:	had	16	SIGNED OFF BY:
DATE:	DEC 0 9 2017 /	17/17/10	DATE:

0 APPROVED HOT ROLLED STEEL PLATE BY DART DATE MT-HRS-P ECN# 17-675 TOLERANCES PER MANUFACTURER SPECIFICATIONS ASTM A36 OR ASTM A1011 OR 44W OR ASTM A1018 WHERE T.TTT IS PLATE THICKNESS IN INCHES REMOVED LENGTH AND WIDTH DIMENSIONS HOT ROLLED STEEL PLATE SPECIFICATION CONTROL DRAWING MT-HRS-P-[T.TTT] MT-HRS-P-0.750 REV. PURCHASE MATERIAL: SPECIFICATION PART NUMBER: EXAMPLE

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MATERIAL: Mt-HK5-P-0-375 DATE: DEC 0 9 2017	PO/BATCH NO.: 0385/3/5017915
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:	THICKNESS ORDERED: 0.375 THICKNESS RECEIVED: 0.775 SHEET SIZE ORDERED: 4X7 SHEET SIZE RECEIVED: 4X8

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(4)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	44 W
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	X	1	
CORRECT REF # TO LINK CERT	0	N	Heat II 7093C4-51
CORRECT MATERIAL IDENTFICATION	(8)	N	
CORRECT M# ON THE MATERIAL		N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	A)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	3	

CUT SAMPLE PIECE OF	MATERIAL A			SS CHECK.	
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION			ENGINEERI	NG SIGNOFF (if required)
INSPECTED BY:	A	16	SIGNED OFF BY:	
DATE:	DEC 0 9 2017	176214	DATE:	

BY APPROVED | CHARGE | C HOT ROLLED STEEL PLATE DART MT-HRS-P 17-675 TOLERANCES PER MANUFACTURER SPECIFICATIONS ECN# ASTM A36 OR ASTM A1011 OR 44W OR ASTM A1018 WHERE T.TTT IS PLATE THICKNESS IN INCHES REMOVED LENGTH AND WIDTH DIMENSIONS DESCRIPTION HOT ROLLED STEEL PLATE SPECIFICATION CONTROL DRAWING MT-HRS-P-[T.TTT] MT-HRS-P-0.750 REV. PURCHASE MATERIAL: SPECIFICATION: PART NUMBER: **EXAMPLE**:

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NOTE 1 top, M.Middle, E:Enc. T:Transverse, L:Longrisdinal, P.S:Piece of Sirce, P.P:Piece of Plate
VERSIS Number(Islanbut Head Office): 0525-0006-4250-0020. Trade Registry Number(Islanbut Department). 90659. Trade Registry Number(Eragis Department): 1574/277
Head Office (Islanbut: Barbards Mah. Ardig Sch. Mo: 6 34746 Ataşehir (STANBUL). TURKEY WEITHE MANUFACTURER) HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HEREIN HAS BEEN MADE BY THE BAS © OXYGEN PROCESS AND TESTED IN ACCORDANCE WITH THE RUKES ON THE SATISFACTORY RESULTS THE PASSES OF TH C237025254112 450 CEGESTARBITE AND 0237625252 12,526 THOUSE NO SHOUL C CORES ON THE A SERVICE OF THE PERSON OF TH TO SECURE OF THE SECOND 711852 711552 3-1852 THERMAI ONS 1 71185220200320 71185220200320 71185220200420 |7023006225L010| |71185220390110| 711852201003201 1711852201003201 71185220100420 71165220206110 7116522020C120 171185220206210 79230062234016 71145220100116 171165220100116 171165220100210 71165220260220 THE CREEKINGS.

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dERSIS Number(Islanbul head Office): 0352-0506-4265-0520 Trade Registry Number(Islanbul Department): 90559: Trade Registry Number(Ereğli Department):
Head Office Islanbul: Barbaros Wat Ardic Soi No. 6. 34746 Alaşehir ISTANBUL: TURKEY 15747777 ERDEMIR when ordenir com. ir



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METTHE MANUFACTURER) HERESY CERTIFY THAT THE MATERIAL DESCRISED HEREIN HAS BEEN MADE BY THE BASIC CXYGEN PROCESS AND TESTED IN ACCORDANCE WITH THE RULES OF COACHER 121/ASTM ASTZ 300M-350M/ CR50 TZ (ENDEMIR 3246)

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AERSIS Number(Istanbui Head Office) 0352-0206-4263-0026. Trade Registry Number(Istanbui Department) 90659 Trade Registry Number(Eregi: Department) 15747272.

Name of the Stanbui Salbaros Nah Ardig Sok No. 5 34745 Alagehir ISTANBUL - TURKEY

www.erdemir.com :/

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WITH SATISFACTORY RESULTS

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WE(THE MANUFACTURER) HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HEREIN HAS BEEN MADE BY THE BASIC OXYGEN PROCESS AND TESTED IN ACCORDANCE WITH THE RULES OF WITH SATISFACTORY RESULTS

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Supplementary Instructions: Test Cerl 1:mir@coilex.ca Test Cerl 2: nathalle legault@aciertransbec.com

Cust Use: RESALE IMPR SHAPE & SURF ESSAR STEEL ALOCHA INC. HEMELY CERTIFIES THAT THE MATERIAL HEREIN DESCRIBED WAS MADE AND TESTED IN ACCORDANCE WITH THE RELIES OF THE SPECTICATION SHOWN. ALL RESULTS ARE RETAINED IN ACCORDANCE WITH THE COMPANYS STANDARD RECORD REPORT IN SHEEP PRACTICES.
THIS MILL TEST REPORT MAY NOT BE REPRODUCED EXCEPT IN FULL WITHOUT WRITTEN APPROVAL OF ESSAR STEEL ALGOMA INC. IF YOU RECEIVE THIS DOCUMENT AND ARE NOT THE INTENDED RECEIVER, PLEASE CALL (7050ME-4055 FOR INSTRUCTIONS ON WETHOD OF DISPOSAL OF DOCUMENT, THIS TEST REPORT MAS BEEN GENERATED BY A COMPUTERIZED SYSTEM AND IS VALID WITHOUT A PHYSICAL SIGNATURE. Insp T/R: Test Report For Info Only

ISO QUALITY AND EHVIRONMENTAL CERTIFICATES AVAILABLE AT WWW.ESSARSTERIALGOMA.COM

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Heat No. Batch No. SRCE LAB GAUGE COND METH DIR LOC YIELD(KSI) FLSCALE ELONG(%) 7093C4 . DSPC ALG 0.3650 AR .2 T F 56.0 76.0 2° 42	Tensile Tes	sts							. NE	CHANICAL	PROPERTI					
0.3650 AR .2 T F 56.0 76.0 2°	Heat No.	Batch No.	SRCE	LAB	GAUGE	COND	METH	DIR LO	X YIEL	DIKSII	TENEH EWEN	4 1000				
U.365U AR .2 T F 56.0	709304	-	Depu	4	03000						Carrell Mail	EL SUALE		(%)		
			2	ALG	0.3000	AK	r,	_	56.0		76.0	2.	42			

KASHIF REHMAN

MANAGER METALLURGICAL SERVICES

"WARNING" IN REST RESULTS AND VALUES REVORTED HEADH FOCUSE OLY THAT (I) THE PARTICLAR STEEL FOR WHICH THE CERTIFICATE IS SEVED METS THE MARKEL SPECIFID VIED STRENGTH AND (2) THE ANALYSES AND PARSALL PROPERTIES OF SUCH STEEL AND WORLD WIND WE DESCRIPE AND WEND WIND SERVED HEADH SPECIFIED HEADH OF SUCH STEEL AND CHAINES WEND CHAINES REPRESENTED THE SERVED. THE STEEL FOR ANY SPECIFICATIONS AND CHAINES RESULT AND CHAING SERVED FOR STEEL FOR

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